



HALEY & ALDRICH, INC.  
One Arizona Center  
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Phoenix, AZ 85004  
602.760.2450

10 June 2020  
File No. 133887-002

Florence Copper Inc.  
1575 West Hunt Highway  
Florence, Arizona 85132

Attention: Brent Berg  
General Manager

Subject: Revised Q4 2019 and Q1 2020 Oxide Well Groundwater Elevation Contour Maps  
UIC and Temporary APP Compliance Monitoring Reports

Dear Mr. Berg:

Haley & Aldrich, Inc. has revised the oxide water level contours prepared for November and December 2019 and January, February, and March 2020. The contours were revised to correct discrepancies arising from incorrect measuring point elevations recorded in the Florence Copper Inc. water level database. The earlier versions of these maps were previously submitted with the fourth quarter (Q4) 2019 and first quarter (Q1) 2020 UIC and Temporary APP Compliance Monitoring Reports.

The attached figures have been prepared as replacements for those previously included in the Q4 2019 and Q1 2020 compliance monitoring reports submitted to the Arizona Department of Environmental Quality (ADEQ) in accordance with Temporary Aquifer Protection Permit No. 106360 and the United States Environmental Protection Agency in accordance with Underground Injection Control Permit No. R9UIC-AZ3-FY11-1. The corrected measuring point elevations resulted in updated water level elevations at select wells, but do not affect the groundwater flow field depicted at the Production Test Facility (PTF) wellfield. Each of the revised groundwater elevation contour maps continue to show inward groundwater flow at the PTF.

Florence Copper Inc.

10 June 2020

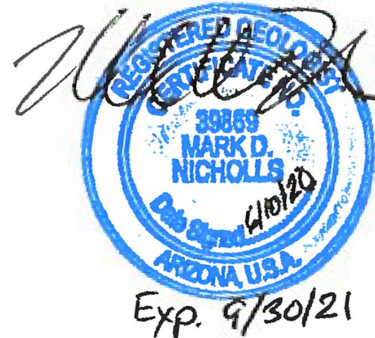
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This document bears my professional seal so that it may be submitted to ADEQ with the accompanying replacement maps. Please contact me with any questions or comments you may have regarding the attached contour maps.

Sincerely yours,  
HALEY & ALDRICH, INC.



Mark Nicholls, R.G.  
Lead Hydrogeologist



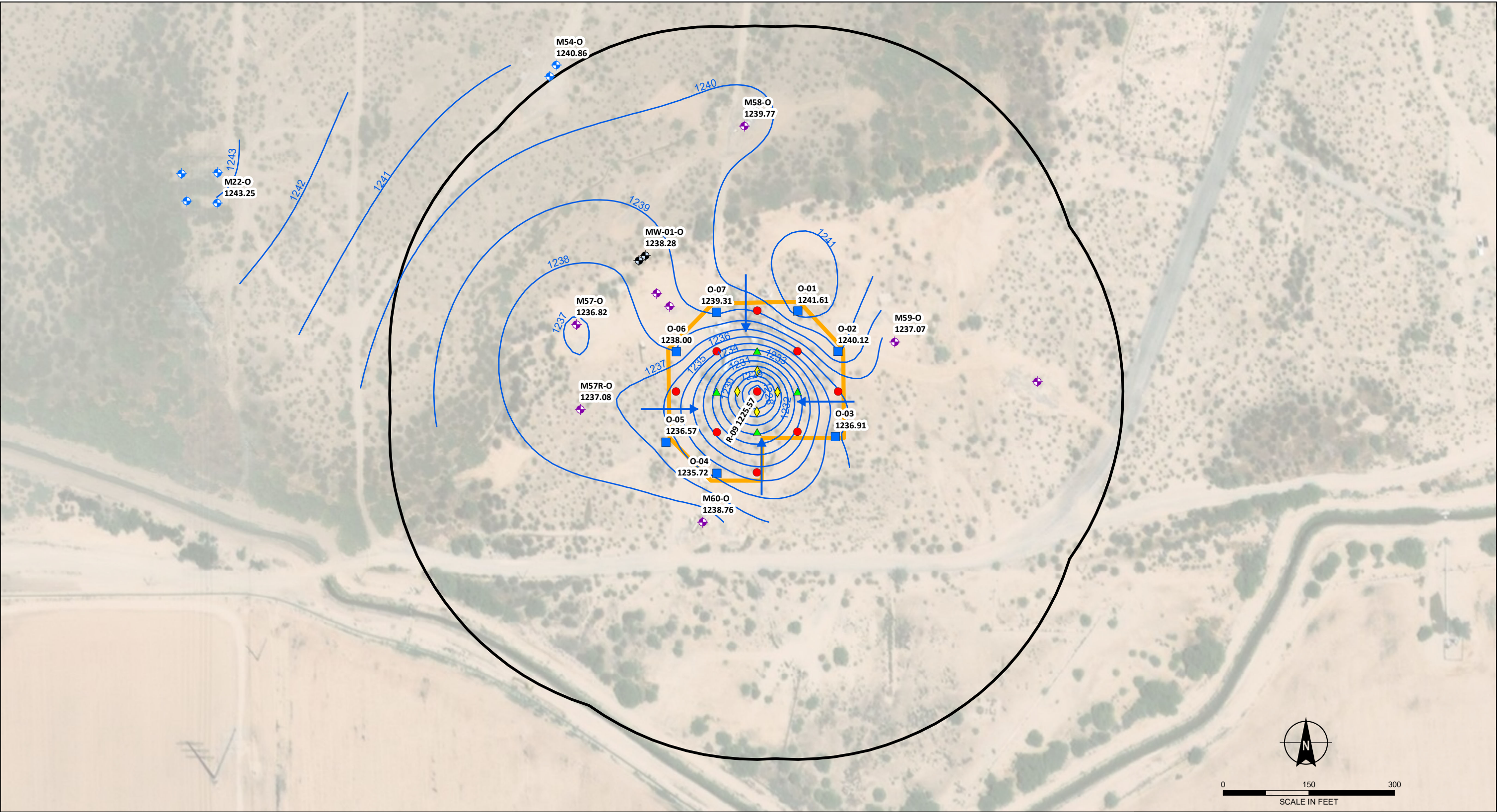
Attachments:








- Oxide Groundwater Elevation Contours, November 2019
- Oxide Groundwater Elevation Contours, December 2019
- Oxide Groundwater Elevation Contours, January 2020
- Oxide Groundwater Elevation Contours, February 2020
- Oxide Groundwater Elevation Contours, March 2020

\\haleyaldrich.com\share\phx\_common\Projects\Florence Copper\133887 Quarterly Monitoring\Deliverables\Q4 2019 & Q1 2020 Oxide Contour Revisions\2020\_0610\_Revised Q4 2019 & Q1 2020 GW Contour Maps\_F.docx

## **ATTACHMENTS**





-  OBSERVATION WELL
-  INJECTION WELL
-  RECOVERY WELL
-  WESTBAY WELL
-  POC WELL
-  SUPPLEMENTAL MONITORING WELL
-  OPERATIONAL MONITORING WELL

-  NOVEMBER 2019 GROUNDWATER ELEVATION CONTOURS
-  POLLUTANT MANAGEMENT
-  PTF WELLFIELD

WELL ID  
GROUNDWATER  
ELEVATION

M59-O  
1237.07

#### NOTES

1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE
2. GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
3. CONTOUR INTERVAL = 1FT
4. WATER LEVEL DATA FROM WELLS COLLECTED 11/06/2019
5. ONLY WELLS COMPLETED IN THE BEDROCK OXIDE THAT HAVE CONTOUR ELEVATIONS LABELED WERE USED IN CONTOURING GROUNDWATER ELEVATIONS

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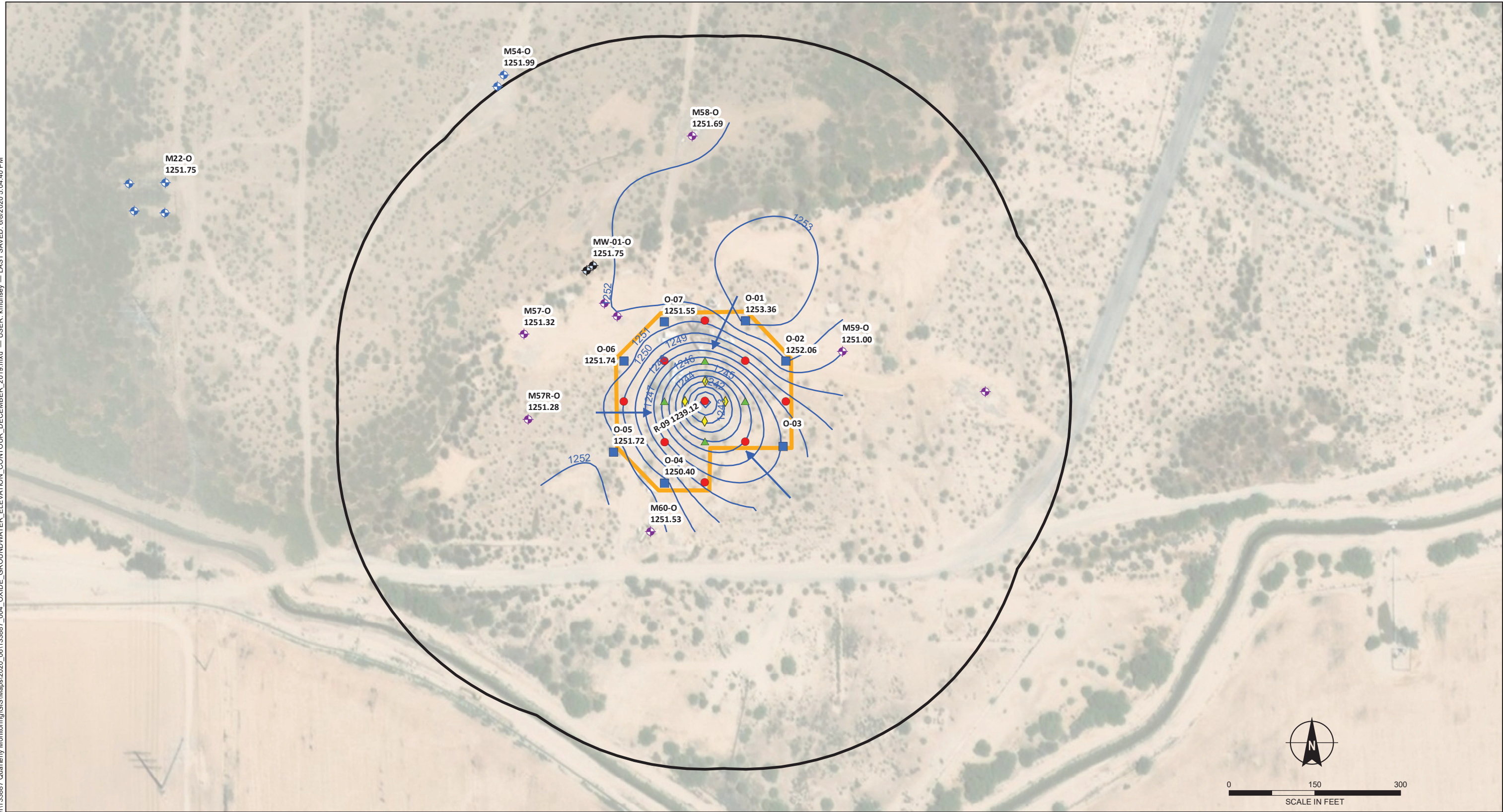
OXIDE GROUNDWATER  
ELEVATION CONTOUR  
NOVEMBER 2019

JUNE 2020

FIGURE 2



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- LEGEND**
- OBSERVATION WELL
  - INJECTION WELL
  - RECOVERY WELL
  - WESTBAY WELL
  - POC WELL
  - SUPPLEMENTAL MONITORING WELL
  - OPERATIONAL MONITORING WELL

- DECEMBER 2019 GROUNDWATER ELEVATION CONTOURS
- POLLUTANT MANAGEMENT AREA
- PTF WELLFIELD

WELL ID  
GROUNDWATER ELEVATION  
**M59-O  
1251.00**

- NOTES**
1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE
  2. GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
  3. CONTOUR INTERVAL = 1FT
  4. WATER LEVEL DATA FROM WELLS COLLECTED 12/19/2019
  5. ONLY WELLS COMPLETED IN THE BEDROCK OXIDE THAT HAVE CONTOUR ELEVATIONS LABELED WERE USED IN CONTOURING GROUNDWATER ELEVATIONS
  6. O-03 WATER LEVEL NOT AVAILABLE DUE TO BLADDER PUMP/TUBING RETRIEVAL AND REDEVELOPMENT

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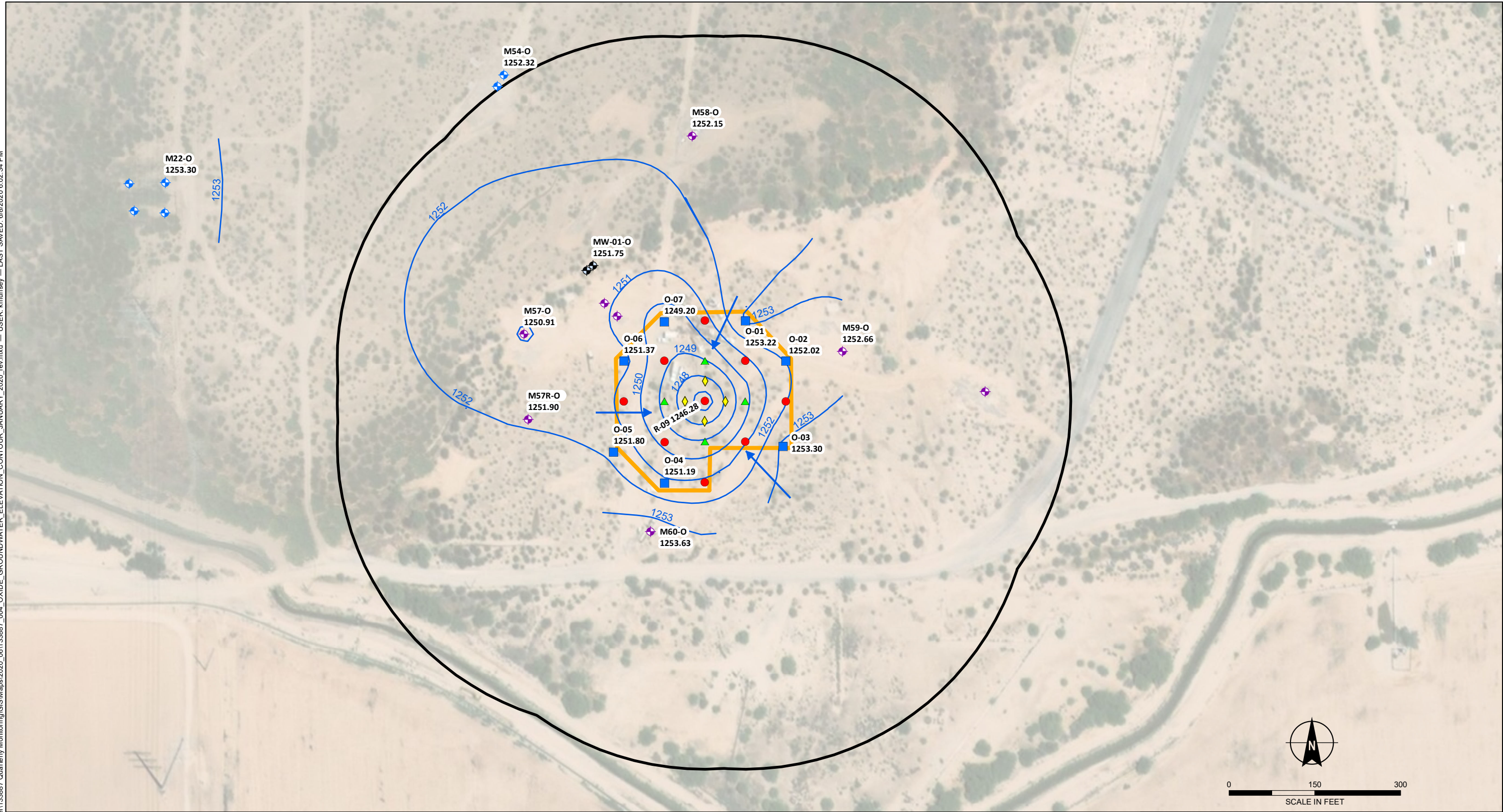
**OXIDE GROUNDWATER  
ELEVATION CONTOUR  
DECEMBER 2019**

JUNE 2020

**FIGURE 3**



GIS FILE PATH: G:\Projects\Florence Copper\133887 Quarterly Monitoring\GIS\Maps\2020\_061133887\_004\_OXIDE\_GROUNDWATER\_ELEVATION\_CONTOUR\_JANUARY\_2020\_rev.mxd — USER: kmunsey — LAST SAVED: 6/8/2020 6:02:34 PM



LEGEND

- OBSERVATION WELL
- INJECTION WELL
- RECOVERY WELL
- WESTBAY WELL
- POC WELL
- SUPPLEMENTAL MONITORING WELL
- OPERATIONAL MONITORING WELL

- JANUARY 2020 GROUNDWATER ELEVATION CONTOURS
- POLLUTANT MANAGEMENT AREA
- PTF WELLFIELD

WELL ID  
GROUNDWATER  
ELEVATION

M59-O  
1252.66

NOTES

1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE
2. GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
3. CONTOUR INTERVAL = 1FT
4. WATER LEVEL DATA FROM WELLS COLLECTED 1/7/2020
5. ONLY WELLS COMPLETED IN THE BEDROCK OXIDE THAT HAVE CONTOUR ELEVATIONS LABELED WERE USED IN CONTOURING GROUNDWATER ELEVATIONS

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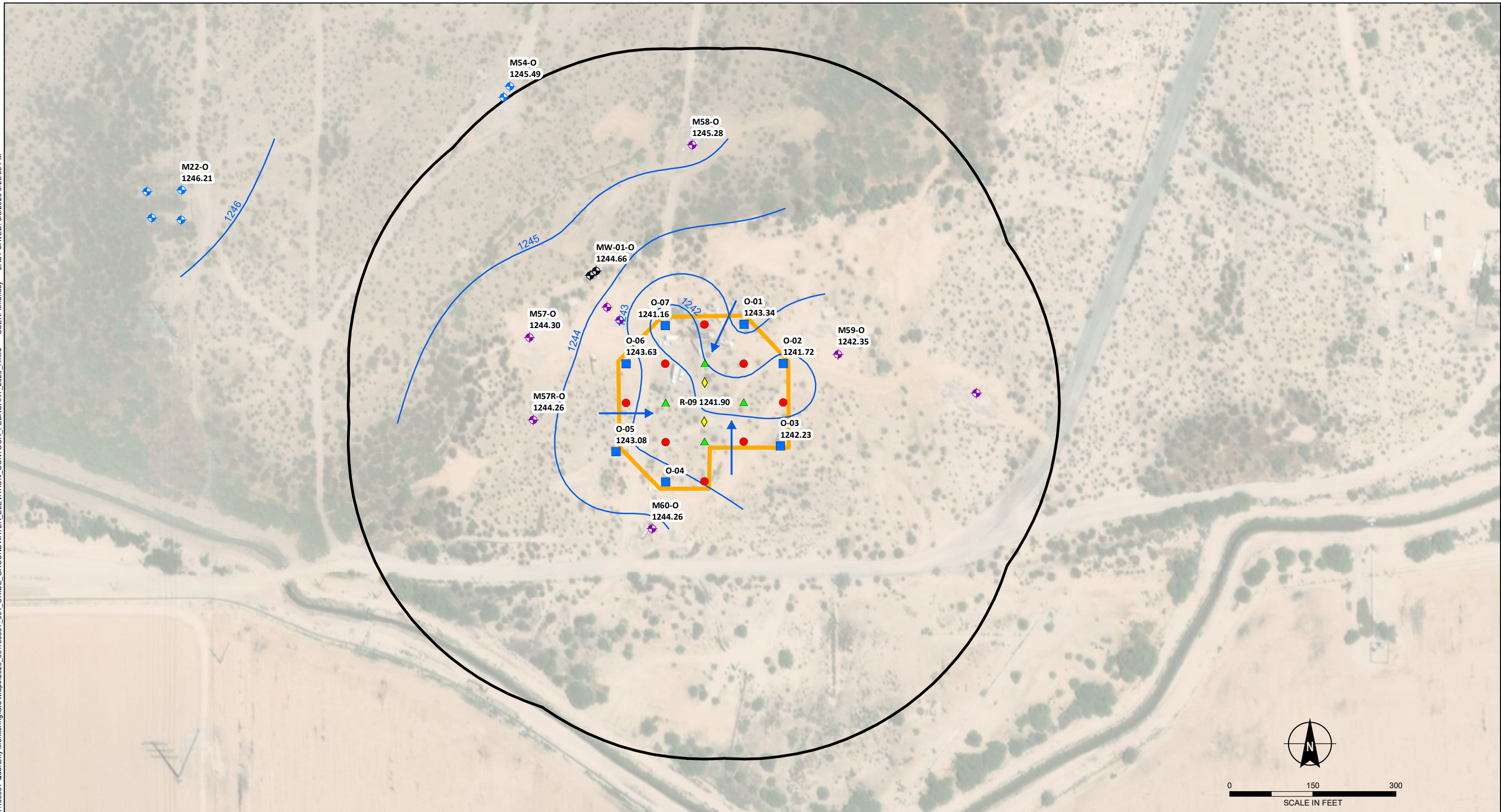
OXIDE GROUNDWATER  
ELEVATION CONTOUR  
JANUARY 2020

JUNE 2020

FIGURE 1



GIS FILE PATH: G:\Projects\Florence Copper\133887 Quarterly Monitoring\GIS\Maps\2020\_061133887\_004\_OXIDE\_GROUNDWATER\_ELEVATION\_CONTOUR\_FEBRUARY\_2020\_r.mxd — USER: kmunsey — LAST SAVED: 6/6/2020 3:26:05 PM



#### LEGEND

- OBSERVATION WELL
- INJECTION WELL
- RECOVERY WELL
- WESTBAY WELL
- POC WELL
- SUPPLEMENTAL MONITORING WELL
- OPERATIONAL MONITORING WELL

- FEBRUARY 2020 GROUNDWATER ELEVATION CONTOURS
- POLLUTANT MANAGEMENT
- PTF WELLFIELD

WELL ID  
GROUNDWATER ELEVATION  
M59-O  
1242.35

#### NOTES

1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE
2. GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
3. CONTOUR INTERVAL = 1FT
4. WATER LEVEL DATA FROM WELLS COLLECTED 2/11/2020
5. ONLY WELLS COMPLETED IN THE BEDROCK OXIDE THAT HAVE CONTOUR ELEVATIONS LABELED WERE USED IN CONTOURING GROUNDWATER ELEVATIONS
6. O-04 WATER LEVEL NOT AVAILABLE ON 2/11/2020; WELL DOWN FOR RECONDITIONING

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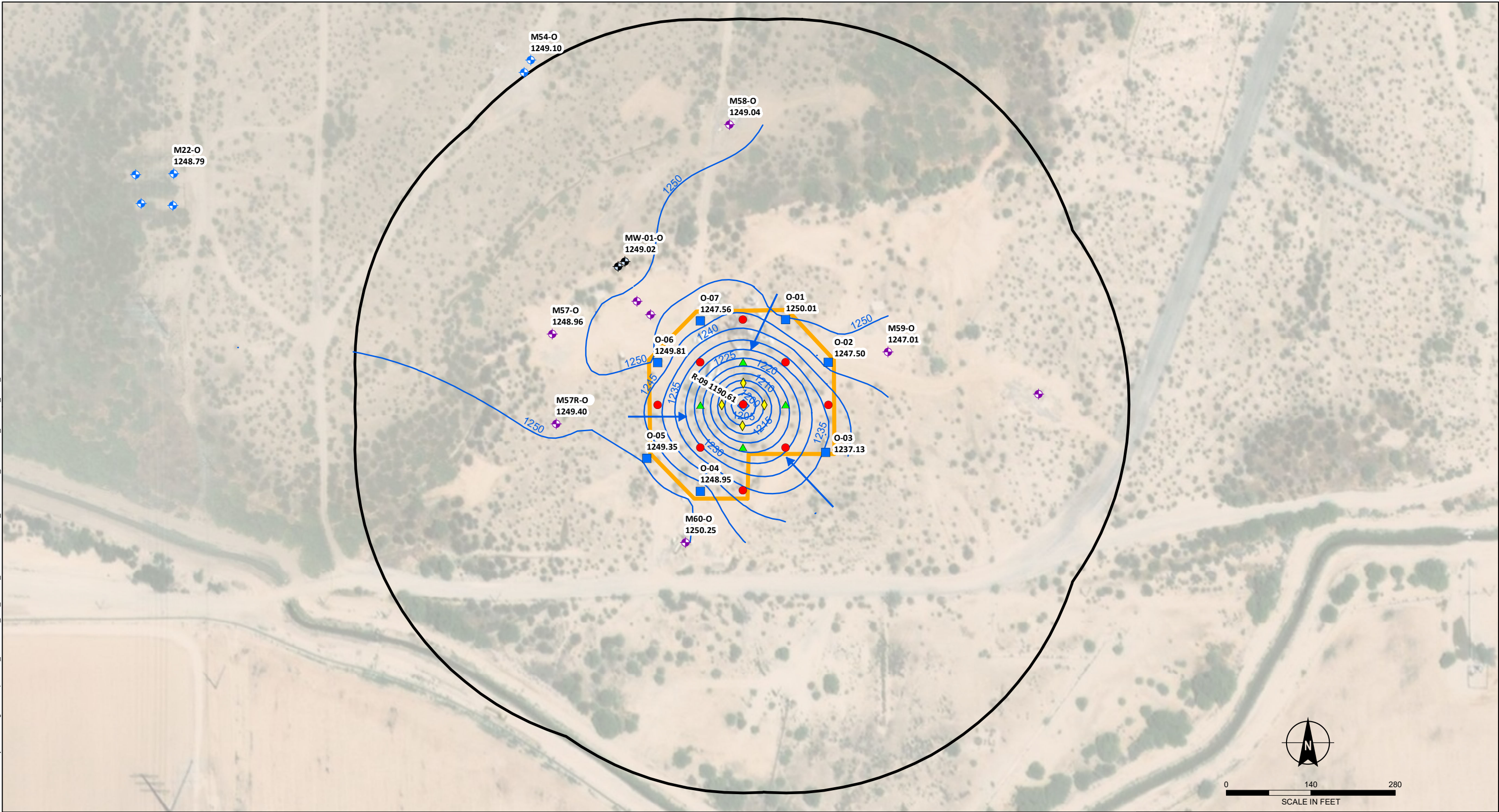
OXIDE GROUNDWATER  
ELEVATION CONTOUR  
FEBRUARY 2020

JUNE 2020

FIGURE 2



GIS FILE PATH: G:\Projects\Florence Copper\133887 Quarterly Monitoring\GIS\Maps\2020\_061133887\_004\_OXIDE\_GROUNDWATER\_ELEVATION\_CONTOUR\_MARCH\_2020\_r.mxd — USER: kmunsey — LAST SAVED: 6/8/2020 5:54:26 PM



- LEGEND**
- OBSERVATION WELL
  - INJECTION WELL
  - RECOVERY WELL
  - WESTBAY WELL
  - POC WELL
  - SUPPLEMENTAL MONITORING WELL
  - OPERATIONAL MONITORING WELL

- MARCH 2020 GROUNDWATER ELEVATION CONTOURS
- POLLUTANT MANAGEMENT
- PTF WELLFIELD

WELL ID  
GROUNDWATER ELEVATION

**M59-O**  
1247.01

**NOTES**

1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE
2. GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
3. CONTOUR INTERVAL = 5FT
4. WATER LEVEL DATA FROM WELLS COLLECTED 3/9/2019
5. ONLY WELLS COMPLETED IN THE BEDROCK OXIDE THAT HAVE CONTOUR ELEVATIONS LABELED WERE USED IN CONTOURING GROUNDWATER ELEVATIONS

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**OXIDE GROUNDWATER  
ELEVATION CONTOUR  
MARCH 2020**

JUNE 2020

**FIGURE 3**